HEATING

FIME®

your secret allies

your secret allies

Fime works in order to improve the quality of our everyday living standard. We all live surrounded by home appliances and we require from them no special technological performance but only a nice comfortable feeling of cooperation and support. Fime offers a technology with a warm and delicate approach, helping in everyday energy consumption saving and devoted to produce silent and efficient appliances. Shortly, Fime motors are your secret allies at home.

COMPANY PROFILE

Fime was founded in 1974 as a company manufacturing motors for cooker hoods, but it was soon able to exploit its home appliances know-how in order to become world leader in the heating appliances field. Fime long experience in design and production of exhausted gas blowers for conventional boilers has brought Fime to expand its product range in the premix blowers munufacture. Thanks to its technology Fime is today well established also in the condensing boilers business. Simulation Instruments implemented since the early product development steps have determined Fime success in Premix fans design. Fluidodynamics, Vibroacustics, digital Electronic Board design are key concepts in the condensing boilers world.
As a result Fime can boast to mention in its customer set the most renowned brands in the heating field. Fime strategy is to tailor products on customers requests and such approach allows Fime to pay particular attention to the final customer needs. Briefly Fime acts behind the curtains in order to improve our everyday living standard. Experimentation with new raw materials, technological innovation, integration are Fime guidelines to face future challenges and therefore consolidate tomorrow's leadership in the heating business. Thanks to Fime customized products we can all live surrounded by comfortable, reliable, silent, high efficiency and therefore environmental friendly appliances.

Wroclaw plant - Poland

Castelfidardo plant - Italy

Innovation and customization

Fime designs and produces motors with experience, know-how and passion.
Innovation is not only technological improvement but it is the research of a new, unique, different product, in a word of an amazing solution.

GR series blowers are exhaust gas extractors applied in wall hung gas boilers, gas water heaters and pellets furnaces. They are silent and guarantee a stable performance characteristic curve.
These radial blowers have forward curved impellers and die casted or metal sheet housings. Housing shapes can be customized by changing and modifying outlet nozzles, fixing systems (bayonet or bracket systems) and pressure sensors position. Housing coupling is designed in order to allow no combustion gas leakages. Gr series Motor support can be sleave-bearing/ball bearing or double ball bearing in order to guarantee reliability required by customers. Motors can be equipped on request with Tachometers to check the motor speed. Gr series motors are squirrel cage induction motors designed and manufactured according to EN60335 and belong to H insulation class.

NEWS
Fime has lately designed a new Plastic housing whose advantages are: flexibility in customization and in process engeneering. This scroll is chemicals and high temperature resistant (up to 250° C), light and therefore easy to handle and transport.

“GR series” blowers

Fime uses technology to customize this product range and experiments in innovative raw materials to achieve fantastic performances.

FEATURES

Shaded-pole AC induction motor

HOUSING
die-casted aluminium

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
sleeve bearing and ball bearing

PRESSURE SENSORS
PPS (polyphenylene sulfide)

ROTATION
clockwise (seen from impeller side)

INSULATION CLASS
H

OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

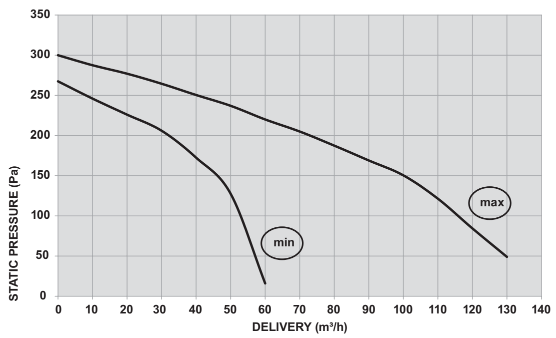
PROTECTION DEGREE
IP00

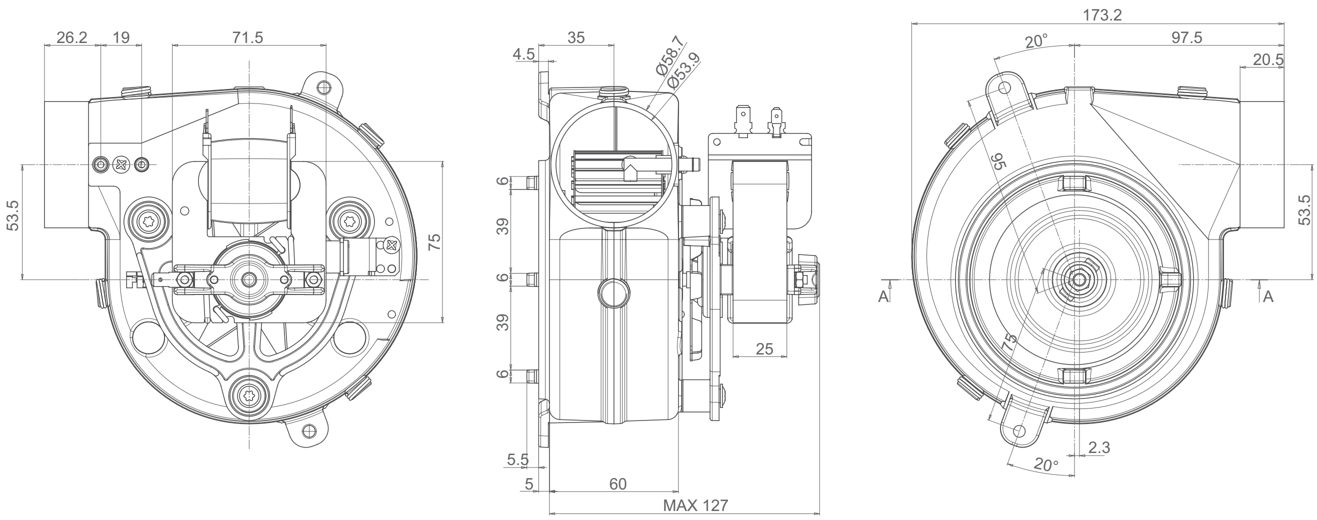
OPTIONS

Tachometer (hall sensor) can be supplied
as speed control.
Pressure sensor can be supplied to use this
signal as ON/OFF for pressure switch.

BAYONET FIXING

CHARACTERISTIC CURVES





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
Min speed	230 V	50 Hz	60 m^3/h	265 Pa	35 W	2450 rpm	CE
Max speed	230 V	50 Hz	130 m^3/h	300 Pa	35 W	2700 rpm	CE

SCREW FIXING

FEATURES

Shaded-pole AC induction motor

HOUSING
die-casted aluminium

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
double ball bearing

PRESSURE SENSORS
PPS (polyphenylene sulfide)

ROTATION
clockwise (seen from impeller side)

INSULATION CLASS
H

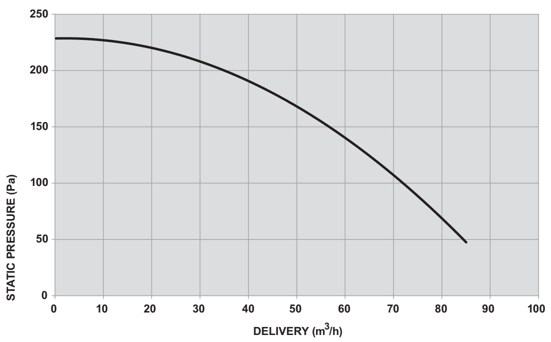
OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

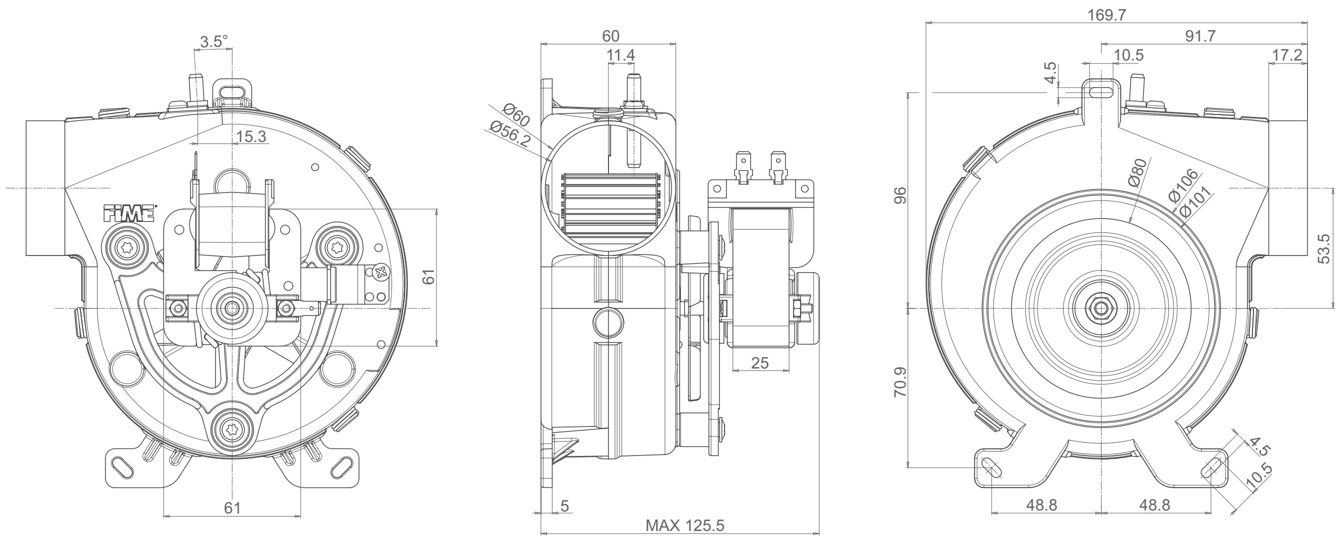
PROTECTION DEGREE
IP00

OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.

CHARACTERISTIC CURVE





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
	220-240 V	50/60 Hz	85 m^3/h	230 Pa	39 W	2625 rpm	CE

FEATURES

Shaded-pole AC induction motor

HOUSING
die-casted aluminium

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
sleeve bearing and ball bearing

PRESSURE SENSORS
PPS (polyphenylene sulfide)

ROTATION
clockwise (seen from impeller side)

INSULATION CLASS
H

OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

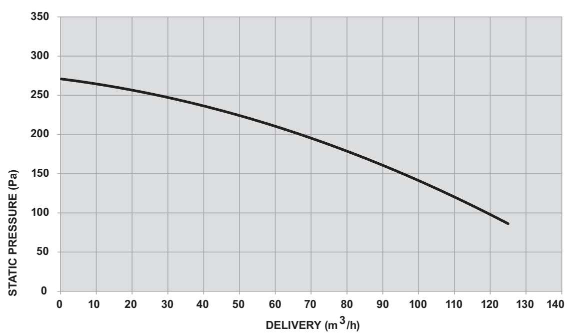
PROTECTION DEGREE
IP00

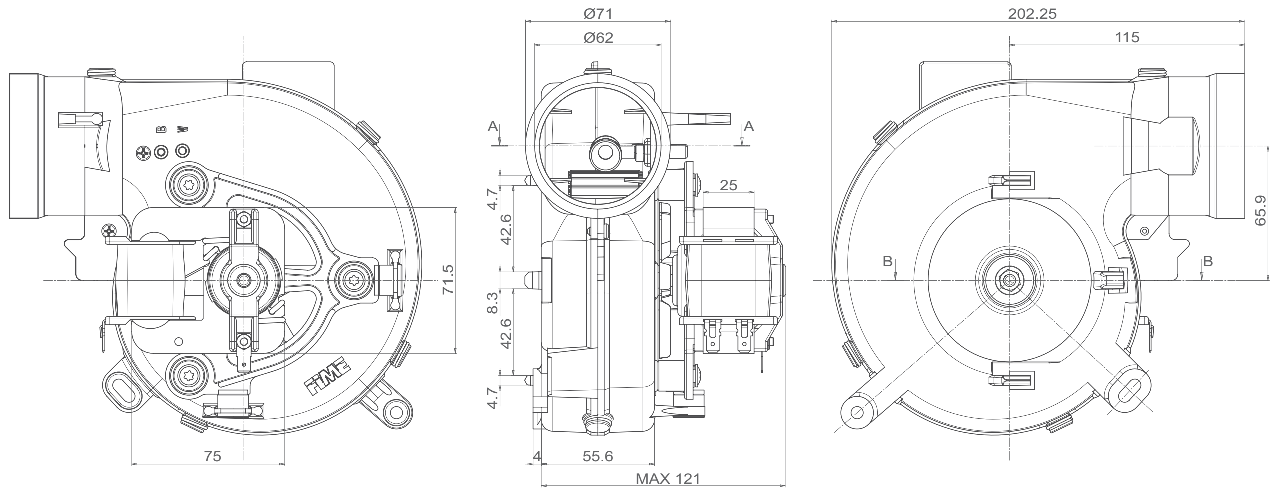
OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.

CUSTOMIZED HOUSING

CHARACTERISTIC CURVE





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
	230 V	50 Hz	120 m^3/h	280 Pa	60 W	2850 rpm	CE

CUSTOMIZED HOUSING

CHARACTERISTIC CURVE

FEATURES

Shaded-pole AC induction motor

HOUSING
die-casted aluminium

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
sleeve bearing and ball bearing

ROTATION
clockwise (seen from impeller side)

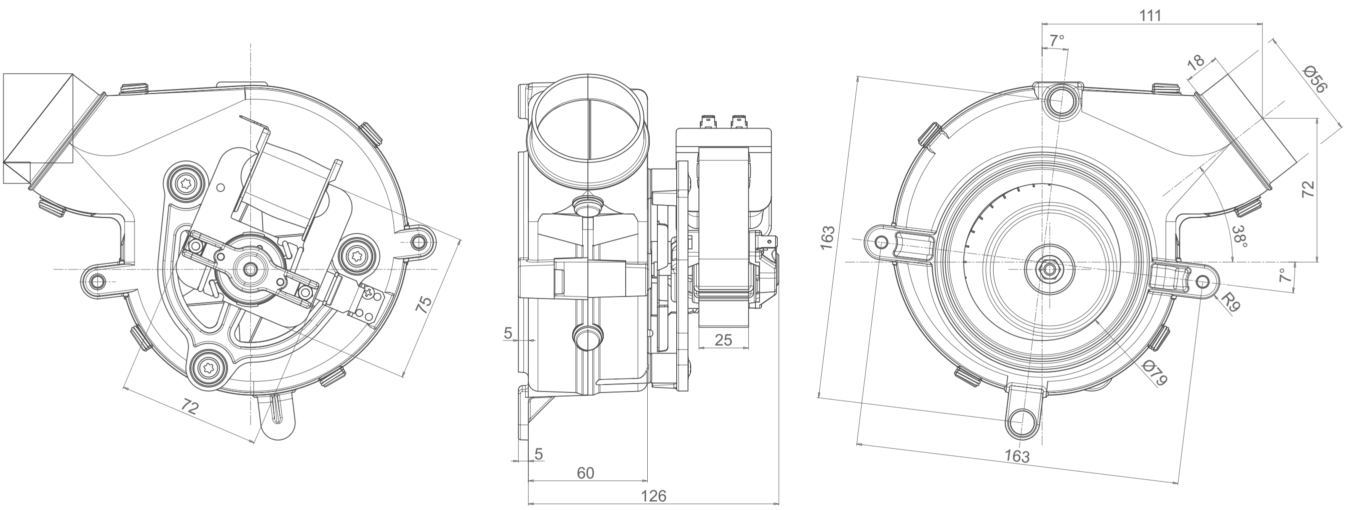
INSULATION CLASS
H

OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

PROTECTION DEGREE
IP00

OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.



TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
	230 V	50 Hz	105 m^3/h	285 Pa	55 W	2850 rpm	CE

FEATURES

Shaded-pole AC induction motor

HOUSING
die-casted aluminium

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
sleeve bearing and ball bearing

PRESSURE SENSORS
PPS (polyphenylene sulfide)

ROTATION
counterclockwise (seen from impeller side)

INSULATION CLASS
H

OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

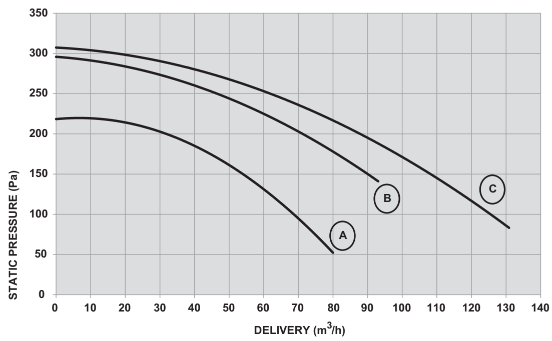
PROTECTION DEGREE
IP00

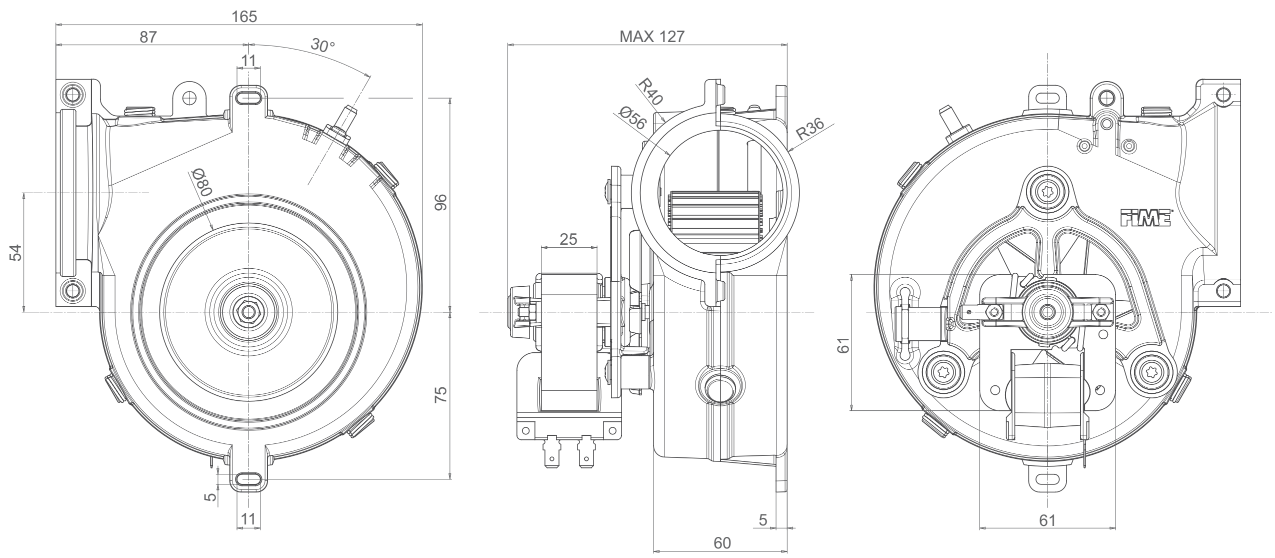
OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.

CUSTOMIZED HOUSING

CHARACTERISTIC CURVES





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
(A)	230 V	50/60 Hz	80 m^3/h	220 Pa	35 W	2650 rpm	CE
(B)	230 V	50/60 Hz	90 m^3/h	290 Pa	47 W	2800 rpm	CE
(C)	230 V	50/60 Hz	130 m^3/h	315 Pa	60 W	2850 rpm	CE

METAL SHEET HOUSING

FEATURES

Shaded-pole AC induction motor

HOUSING
hot dip aluminized sheet

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
double ball bearing

ROTATION
clockwise (seen from impeller side)

INSULATION CLASS
H

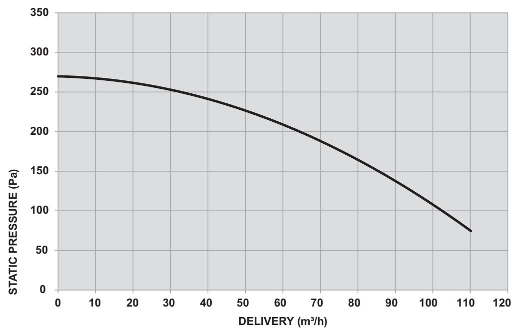
OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

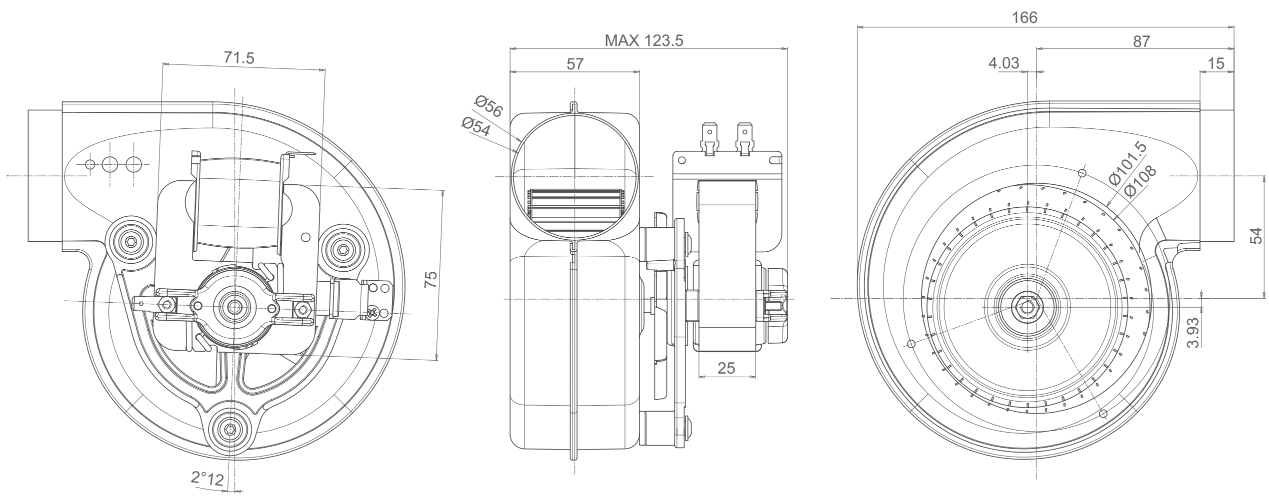
PROTECTION DEGREE
IP00

OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.

CHARACTERISTIC CURVE





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
	220-240 V	50/60 Hz	110 m^3/h	280 Pa	50 W	2750 rpm	CE

FEATURES

Shaded-pole AC induction motor

HOUSING
hot dip aluminized sheet

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
double ball bearing

ROTATION
counterclockwise (seen from impeller side)

INSULATION CLASS
H

OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

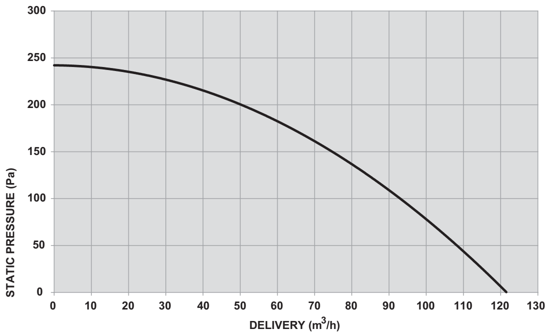
PROTECTION DEGREE
IP00

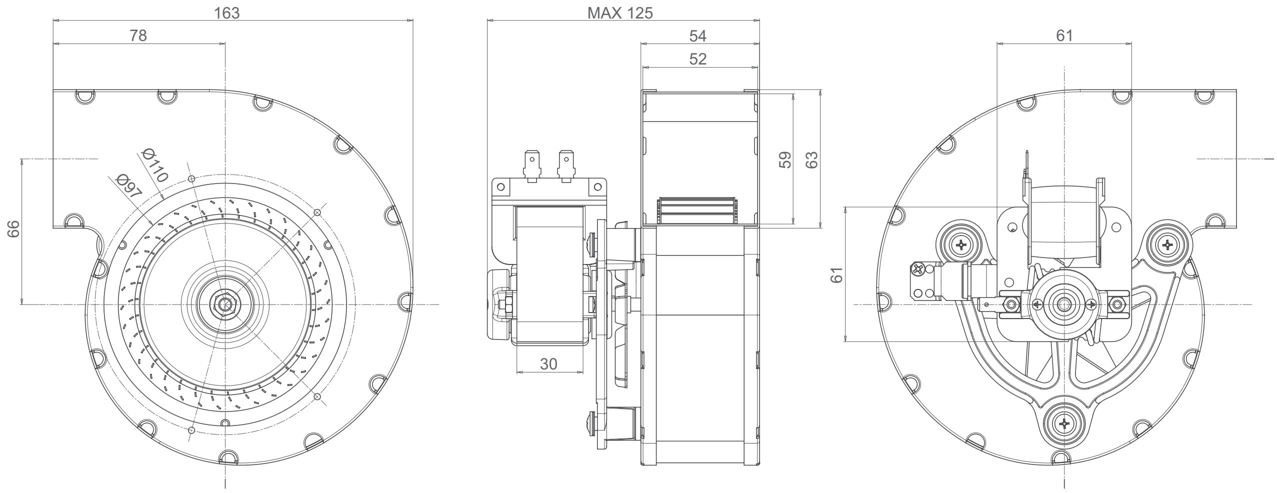
OPTIONS

Tachometer (hall sensor) can be supplied
as speed control.
Pressure sensor can be supplied to use this
signal as ON/OFF for pressure switch.

METAL SHEET HOUSING

CHARACTERISTIC CURVE





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
	220-240 V	50 Hz	120 m^3/h	250 Pa	47 W	2700 rpm	CE

NEW PLASTIC HOUSING

FEATURES

Shaded-pole AC induction motor

HOUSING
PPS (polyphenylene sulfide)

IMPELLER
forward curved, aluminium

MOTOR SUPPORT
sleeve bearing and ball bearing

PRESSURE SENSORS
PPS (polyphenylene sulfide)

ROTATION
counterclockwise (seen from impeller side)

INSULATION CLASS
H

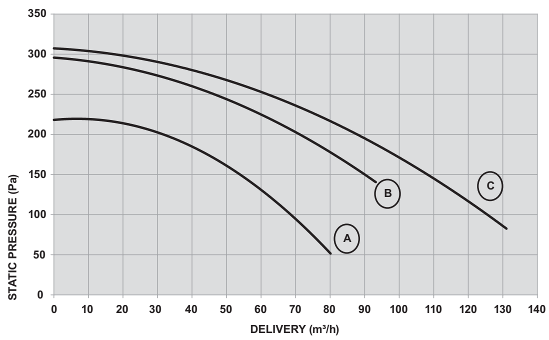
OPERATING TEMPERATURE RANGE
0 – 85°C
Max air stream
temperature 180°C

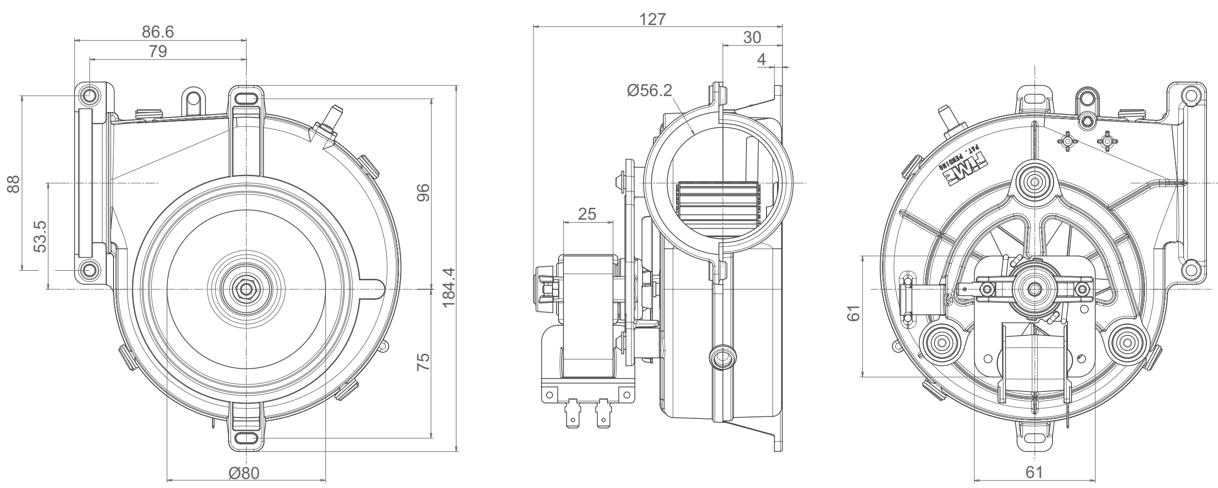
PROTECTION DEGREE
IP00

OPTIONS

Tachometer (hall sensor) can be supplied as speed control.
Pressure sensor can be supplied to use this signal as ON/OFF for pressure switch.

CHARACTERISTIC CURVES





TYPE	RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	APPROVAL
(A)	230 V	50/60 Hz	80 m^3/h	220 Pa	35 W	2650 rpm	CE
(B)	230 V	50/60 Hz	90 m^3/h	290 Pa	47 W	2800 rpm	CE
(C)	230 V	50/60 Hz	130 m^3/h	315 Pa	60 W	2850 rpm	CE

PX series blowers provide optimal fuel/air mixture in burners of condensing gas boilers, condensing water heaters, Heat pumps, and micro-CHP systems. Premix die-casted housing can be customized in the outlet fixing according to customer special design and inlet fixings according to the gas valves available on the market. Housings are sealed to guarantee fuel–air mixture tightness. Impellers are in antistatic plastic material resistant to pentane, dynamically balanced. Motor supports have double ball bearings to guarantee utmost reliability. Px series blowers are BLDC motors with integrated control boards. Available PCB versions: Hall sensor only, 24 Vdc, 230 Vac-50Hz. Premix blowers are designed and manifactured in compliance with EMC standards 55014-1. Fime PX blowers available versions cover condensing boilers range from 15 up to 70 KW.

NEWS

Fime has lately developed a Premix with an integrated venturi aimed at optimizing the boiler combustion and at reducing boiler components. For USA market Fime has a new product called “PX148 enhanced” which is 120Vac 60Hz powered and highly performant.

“PX series” blowers

Innovative technology is a basic instrument in FIME Premix blowers design and development.
Premix are brushless motors built with sophisticated components in compliance with condensing boilers high performance standards.

FEATURES

Brushless DC motor

HOUSING
die-casted aluminium

IMPELLER
plastic, antistatic, resistant to pentane

MOTOR SUPPORT
double ball bearing

ROTATION
counterclockwise (seen from impeller side)

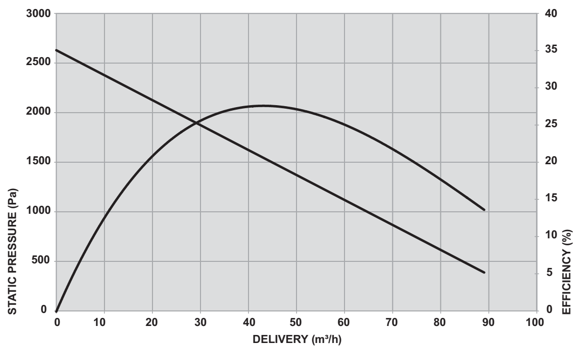
INSULATION CLASS
B

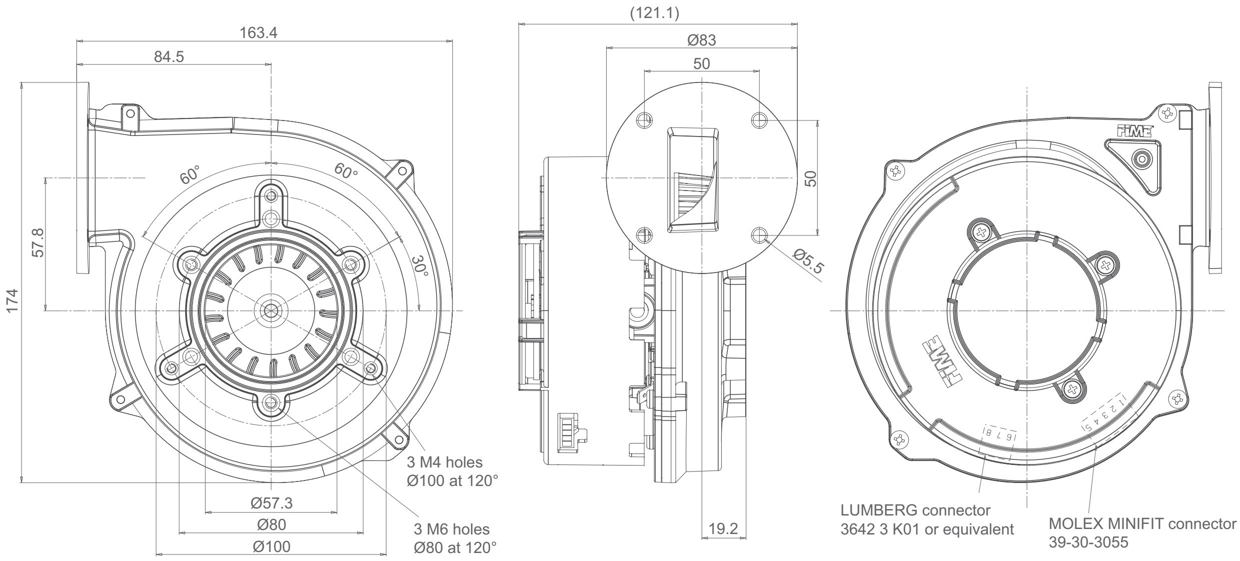
OPERATING TEMPERATURE RANGE
0 – 70°C

PROTECTION DEGREE
IP00

PX118

CHARACTERISTIC CURVES





RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	ELECTRONIC CONTROL	APPROVAL
24 V DC	50/60 Hz	90 m^3/h	2700 Pa	60 W	5250 rpm	Internal/External	CE
230 V AC	50/60 Hz	90 m^3/h	2700 Pa	60 W	5750 rpm	Internal	
325 V DC	50/60 Hz	90 m^3/h	2700 Pa	60 W	5750 rpm	External	

PX128

FEATURES

Brushless DC motor

HOUSING
die-casted aluminium

IMPELLER
plastic, antistatic, resistant to pentane

MOTOR SUPPORT
double ball bearing

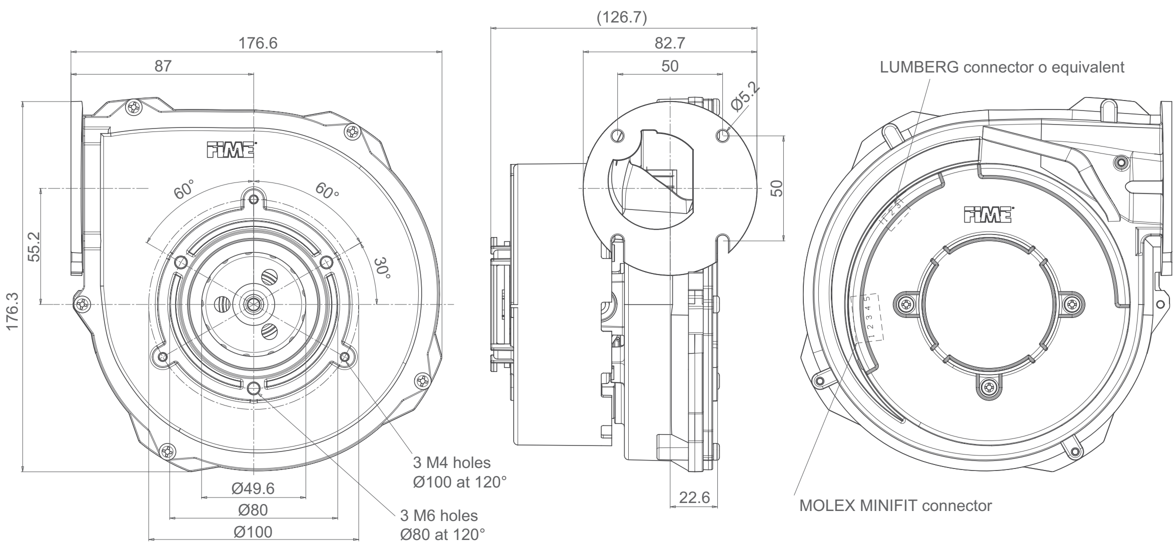
ROTATION
counterclockwise (seen from impeller side)

INSULATION CLASS
B

OPERATING TEMPERATURE RANGE
0 – 70°C

PROTECTION DEGREE
IP00

CHARACTERISTIC CURVES



RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	ELECTRONIC CONTROL	APPROVAL
24 V DC	50/60 Hz	98 m^3/h	1900 Pa	35-54 W	5100 rpm	Internal/External	CE
230 V AC	50/60 Hz	115 m^3/h	2500 Pa	75 W	5900 rpm	Internal	
325 V DC	50/60 Hz	115 m^3/h	2500 Pa	75 W	5900 rpm	External	

FEATURES

Brushless DC motor

HOUSING
die-casted aluminium

IMPELLER
plastic, antistatic, resistant to pentane

MOTOR SUPPORT
double ball bearing

ROTATION
counterclockwise (seen from impeller side)

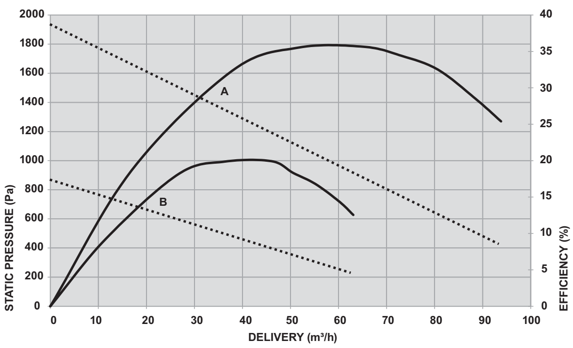
INSULATION CLASS
B

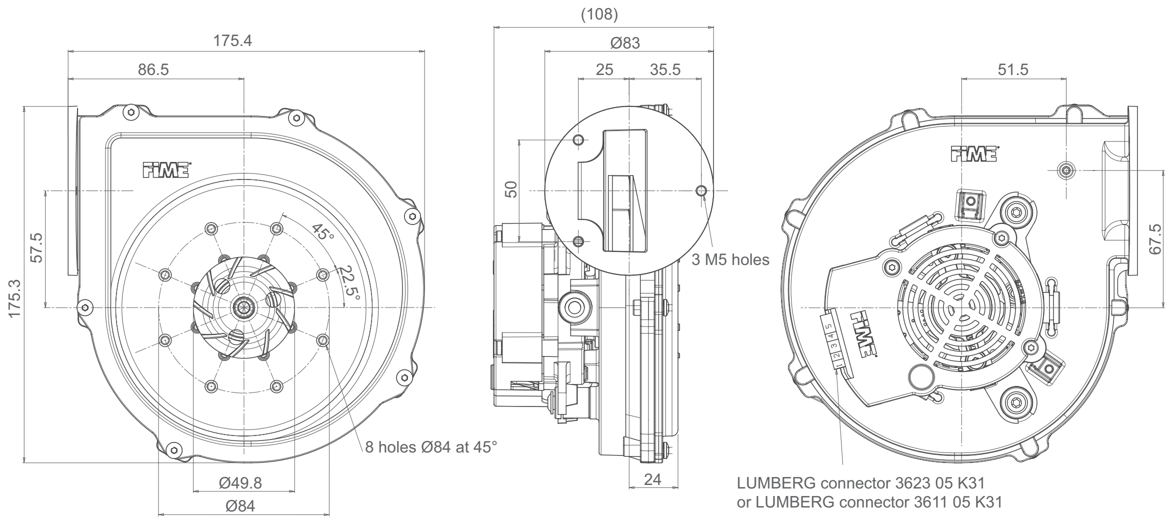
OPERATING TEMPERATURE RANGE
0 – 70°C

PROTECTION DEGREE
IP00

PX130

CHARACTERISTIC CURVES





RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	ELECTRONIC CONTROL	APPROVAL
24 V DC	50/60 Hz	97 m^3/h	1900 Pa	35-54 W	5900 rpm	Internal/External	CE
230 V AC	50/60 Hz	95 m^3/h	1800 Pa	75 W	6400 rpm	Internal	CE
325 V DC	50/60 Hz	95 m^3/h	1800 Pa	75 W	6400 rpm	External	CE
120 V AC	50/60 Hz	84 m^3/h	1380 Pa	56 W	5850 rpm	Internal	UL/CSA

PX148

FEATURES

Brushless DC motor

HOUSING
die-casted aluminium

IMPELLER
plastic, antistatic, resistant to pentane

MOTOR SUPPORT
double ball bearing

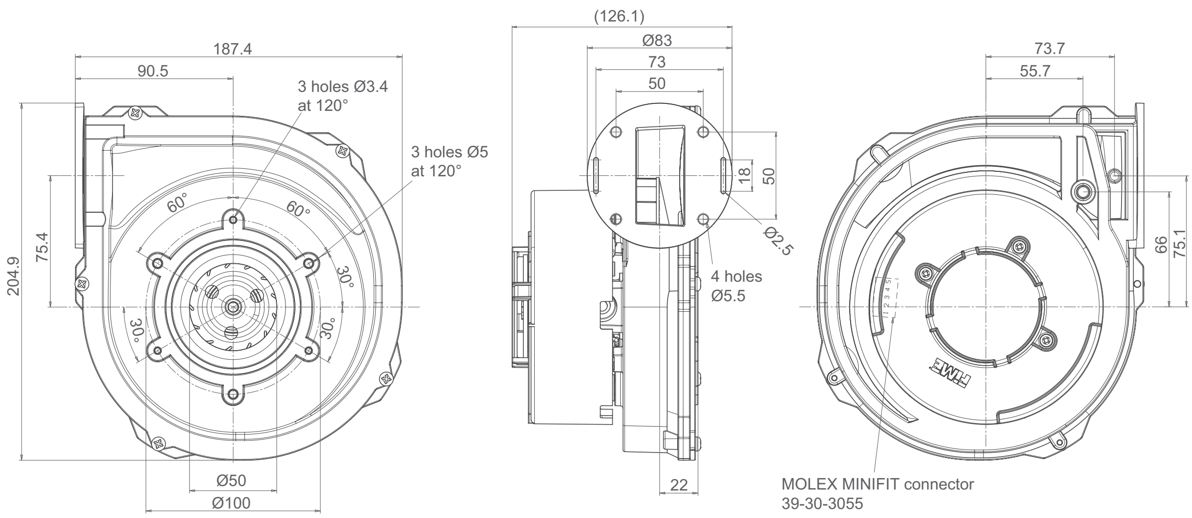
ROTATION
counterclockwise (seen from impeller side)

INSULATION CLASS
B

OPERATING TEMPERATURE RANGE
0 – 70°C

PROTECTION DEGREE
IP00

CHARACTERISTIC CURVES



RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	ELECTRONIC CONTROL	APPROVAL
24 V DC	50/60 Hz	100 m^3/h	1740 Pa	54 W	4380 rpm	Internal/External	CE
230 V AC	50/60 Hz	115 m^3/h	2500 Pa	75 W	5100 rpm	Internal	CE
325 V DC	50/60 Hz	115 m^3/h	2500 Pa	75 W	5100 rpm	External	CE
120 V AC	50/60 Hz	140 m^3/h	2500 Pa	120 W	6100 rpm	Internal	UL/CSA

FEATURES

Brushless DC motor

HOUSING
die-casted aluminium

IMPELLER
plastic, antistatic, resistant to pentane

MOTOR SUPPORT
double ball bearing

ROTATION
counterclockwise (seen from impeller side)

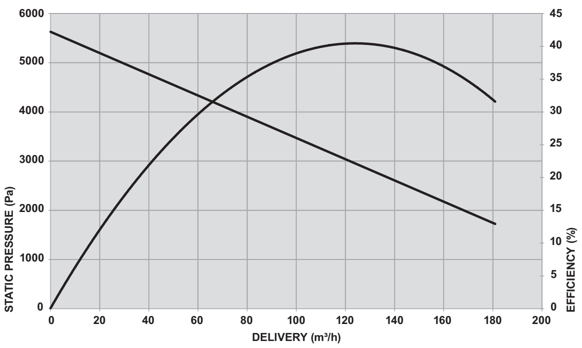
INSULATION CLASS
B

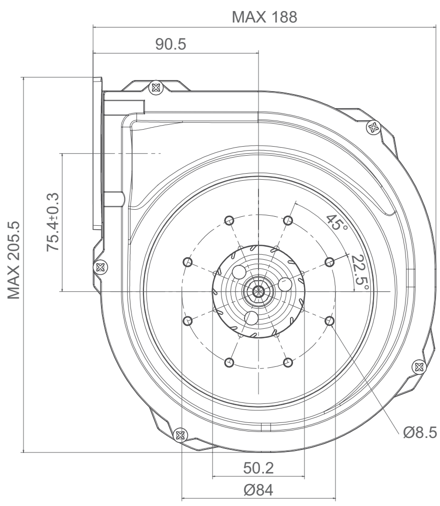
OPERATING TEMPERATURE RANGE
0 – 70°C

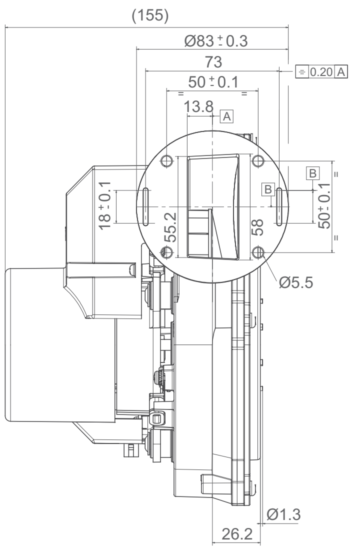
PROTECTION DEGREE
IP00

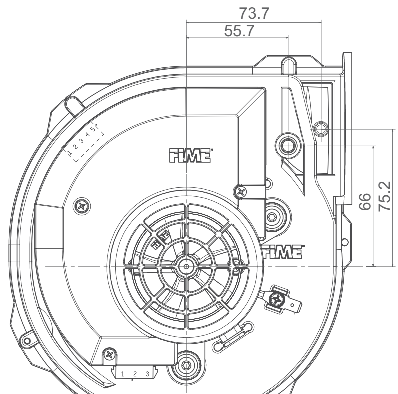
PX148 ENHANCED

CHARACTERISTIC CURVES





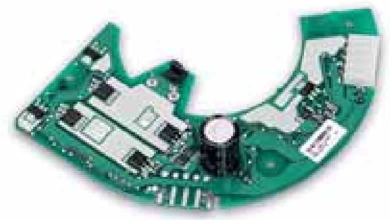




RATED VOLTAGE	FREQUENCY	AIR FLOW	MAX PRESSURE	INPUT POWER	MAX SPEED	ELECTRONIC CONTROL	APPROVAL
120 V AC	50/60 Hz	160 m^3/h	5500 Pa	260 W	7700 rpm	Internal	UL/CSA

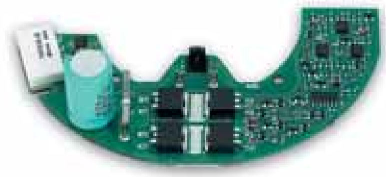
BLOWER CONTROL BOARDS

FEATURES

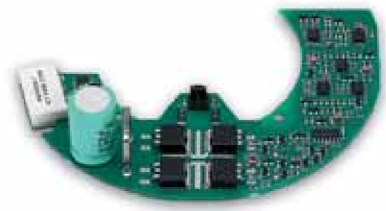


20-45 VDC
up to 35W

230 VAC
up to 80W
various signal interface available

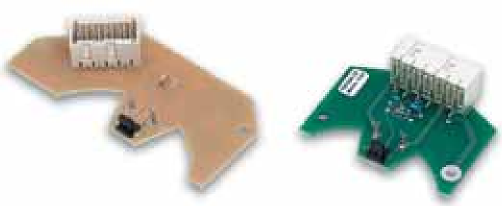


18-43 VDC
up to 54W



24 VDC
up to 54W

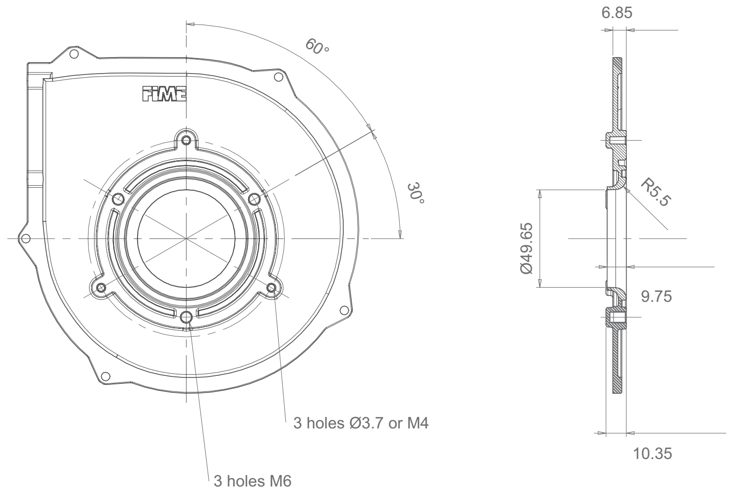
HALL SENSOR ONLY VERSIONS
various connectors available



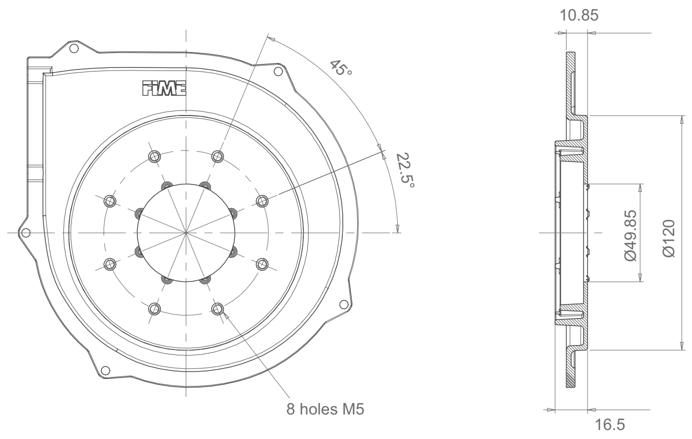
FEATURES

INLET VALVE FIXINGS

SIT VALVE FIXING

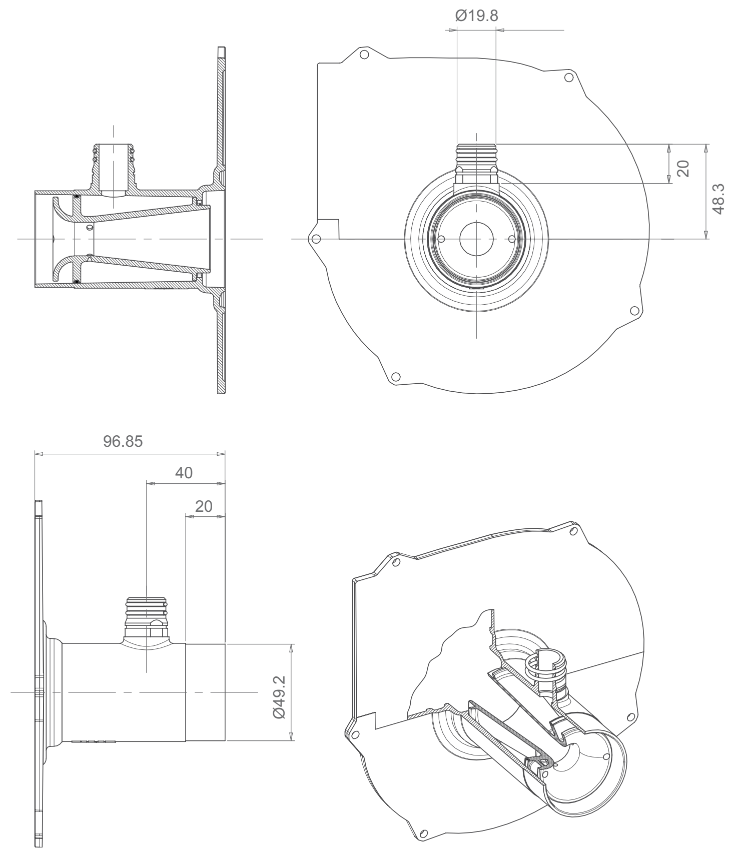


HONEYWELL VALVE FIXING



HOUSING WITH INTEGRATED VENTURI

NEW



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